MCOG Application Note 6:
Requirement 1-of-1 Applied to Autonomous Vehicles and Mobility Systems
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1. Purpose

This Application Note demonstrates how the Moral Covenant of Governance (MCOG) Requirement 1-of-1 can be applied to autonomous vehicles, drone fleets, and intelligent mobility systems while preserving the framework's technology-agnostic nature.

2. Requirement 1-of-1 (Full Recap)

Requirement 1-of-1 is the single, essential standard at the heart of the Moral Covenant of Governance (MCOG). Its key innovation is that compliance creates an **auditable system state** — not a metaphysical wish list.

Any system of governance that seeks to prevent tyranny and support sustainable liberty **MUST** be in full compliance with the three universal moral pillars — Adherence to the Golden Rule/Reciprocity, Protection of the Commons/Stewardship, and Securing of Unalienable Rights — as the necessary and sufficient condition for a sustained Virtuous Cycle of Liberty. This is achieved through the operationalization of the pillars via a modest body of derivative positive law (or system guardrails) that is generated from, tested against, and kept perpetually compliant with those pillars.

3. Mapping the Three Pillars to Autonomous Mobility

- **Golden Rule / Reciprocity**: Do routing and decision algorithms treat all road users (pedestrians, cyclists, passengers) fairly, as operators would wish if roles were reversed?
- **Protection of the Commons / Stewardship**: Are shared public resources (roads, airspace, energy infrastructure) allocated sustainably, or are they being degraded by optimization favoring specific fleets?
- **Securing of Unalienable Rights**: Do systems preserve human agency, safety, privacy, and the ability to override autonomous decisions? Do they avoid discriminatory routing or surveillance creep?

4. Functional Interface

The mobility platform should feed the Three-Pillar Compliance Filter:

- Optimization objectives and safety policies
- Real-time telemetry and environmental data
- Proposed autonomous maneuvers

The Filter returns compliance decisions, ROLIS/ROTIS assessments, and adjustment recommendations.

5. Examples

- **Route Optimization During Congestion**: An autonomous fleet reroutes to avoid delays, increasing risk to pedestrians in certain neighborhoods. **Filter Outcome**: Violation of Pillar 1 and Pillar 3. Recommendation: Enforce equitable safety thresholds across all users.
- **Data Collection from Vehicles**: Continuous recording and monetization of passenger and surrounding data without clear consent. **Filter Outcome**: Violation of Pillar 3 (privacy) and Pillar 2 (data commons). Recommendation: Strong opt-in and minimal data retention policies.

6. Benefits and Implementation Guidance

Requirement 1-of-1 creates auditable safety and ethical guardrails, builds public trust, and reduces liability through demonstrable good-faith compliance. Start with policy-level integration and evolve to real-time vehicle-edge filtering.

Future Work: Testbed validation with autonomous vehicle platforms.

Document Availability

The full technical specification, logic proofs, and structural taxonomies are published under Creative Commons licensing as a public-domain Request for Comments (RFC).

- ***Open Standard for the Identification and Prevention of Tyrannical Governance: The Moral Covenant of Governance (MCOG) — Requirement 1-of-1, May 2026; Free download:*** *https://archive.org/details/open-standard-mcog-req-1-of-1-v-01*
- ***Addendum A: The Three-Pillar Compliance Filter — Functional Specification and Examples, to Open Standard for the Identification and Prevention of Tyrannical Governance: The Moral Covenant of Governance (MCOG) — Requirement 1-of-1, July 2026; Free Downloads:*** *https://archive.org/details/open-standard-mcog-req-1-of-1-addendum-a-v-01*
- **The full MCOG body of work, including all application notes, are available for Free Downloads here:** https://archive.org/details/@michael_fargano/uploads
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"Power without moral anchors eventually corrupts. Requirement 1-of-1 is that anchor."